

ABSTRACT

A swash plate type variable capacity compressor which is a compressor (10) to be used for a supercritical refrigerating cycle (1) and provided with a swash plate (400) which is disposed rotatably, a piston (500) which is coupled with the swash plate and a cylinder (600) which holds the piston movably, the cylinder is provided with a suction valve (150) for sucking a refrigerant of the supercritical refrigerating cycle and a discharge valve (160) for discharging the refrigerant, wherein the suction valve has valve bodies (152) having flexibility attached to suction ports (141) for sucking the refrigerant, and the swash plate type variable capacity compressor has the valve bodies press-contacted in an elastically deformed state against the valve seats of the suction ports to decrease the number of rotations of the swash plate when the refrigerant is started to be compressed.